

Title (en)
NEEDLE CANNULA

Title (de)
NADEL CANNULA

Title (fr)
CANULE

Publication
EP 1331958 B1 20040908 (EN)

Application
EP 02704635 A 20020315

Priority
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Abstract (en)
[origin: WO02076540A1] An elongated tubular needle for injecting a fluid into a human body or retracting a fluid from the human body, comprising; a tubular needle cannula (1) having a skin piercing distal end (4), an opposite proximal end (5), and a tubular sidewall (2) there between having an outside diameter at the skin piercing end (4) which is smaller than the outside diameter at the opposite proximal end (5) thereof, and a cylindrical lumen (3) extending through the needle cannula (1) and having approximately the same uniform inside diameter through the needle cannula (1).

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A61M 5/32; A61B 17/34

IPC 8 full level
A61B 17/34 (2006.01); **A61M 5/158** (2006.01); **A61M 5/32** (2006.01); **A61M 25/00** (2006.01)

CPC (source: EP KR US)
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WO 02076540 A1 20021003; AT E275426 T1 20040915; AT E330652 T1 20060715; AU 2002238403 B2 20060720; CA 2441582 A1 20021003; CA 2441582 C 20100608; CN 1285390 C 20061122; CN 1498123 A 20040519; DE 60201165 D1 20041014; DE 60201165 T2 20050922; DE 60212691 D1 20060803; DE 60212691 T2 20070628; DK 1449555 T3 20061009; EP 1331958 A1 20030806; EP 1331958 B1 20040908; EP 1449555 A1 20040825; EP 1449555 B1 20060621; ES 2227430 T3 20050401; ES 2268539 T3 20070316; IL 157945 A0 20040328; IL 157945 A 20090922; JP 2004518516 A 20040624; JP 3590401 B2 20041117; KR 100841727 B1 20080627; KR 20040012736 A 20040211; PL 203322 B1 20090930; PL 363867 A1 20041129; PT 1331958 E 20050228; PT 1449555 E 20061130; RU 2003131188 A 20050410; RU 2288746 C2 20061210; TW 574044 B 20040201; US 2003009137 A1 20030109; US 2004025556 A1 20040212; US 2004064109 A1 20040401; US 2006247583 A1 20061102; ZA 200307272 B 20040917

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